

EXAMINER'S AMENDMENT

[01] An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

[02] Authorization for this examiner's amendment was given in a telephone interview with William E. Meyer on 2008 June 03.

[03] The application has been amended as follows: amend title to "Incandescent lamp with a carbon cycle and a halogen cycle".

Allowable Subject Matter

[04] Claims 29 and 43 are allowed over the prior art of record.

[05] The following is an examiner's statement of reasons for allowance.

[06] Regarding claims 29, the prior art of record, Cooper (US 3,277,330), teaches an incandescent lamp comprising: a light transmissive bulb (Figure 1) having a wall defining an enclosed volume sealed in a vacuum-tight manner (column 2, lines 6-8); a luminous body (10) positioned in the enclosed volume (Figure 1); the luminous body including a metal carbide having a melting point greater than the melting point of tungsten (column 1, lines 72; tantalum carbide filament); electrical leads (16) sealed through the wall and electrically coupled to the luminous body (Figure 1); a filing enclosed in the enclosed volume including (12): an inert fill gas (argon, Table 1); and one or more additives composed of carbon, hydrogen and halogens, so that the total content in the gas phase, based on a cold filling pressure of 1 bar, in mol percent is: carbon 0.1% - 5.0%, hydrogen 0.2% - 20.0%, halogen, not including fluorine 0.05% - 0.5% (Table 1, Table 2).

[07] Regarding claim 43, the prior art of record, Cooper (US 3,277,330), teaches an incandescent lamp comprising: a light transmissive bulb (Figure 1) having a wall defining an enclosed volume sealed in a vacuum-tight manner (column 2, lines 6-8); a luminous body (10) positioned in the enclosed volume (Figure 1); the luminous body including a metal carbide having a melting point greater than the melting point of tungsten (column 1, lines 72; tantalum carbide filament); electrical leads (16) sealed through the wall and electrically coupled to the luminous body (Figure 1); a filing enclosed in the enclosed volume including (12): an inert fill gas (argon, Table 1); and one or more additives composed of carbon, hydrogen and halogens, so that the total content in the gas phase, based on a cold filling pressure of 1 bar, in mol percent is: carbon 0.25% - 5.0%, sulfur 0.05% - 5.0%, hydrogen 0.5% - 40.0%, halogen, not including fluorine of 0.02% - 0.5% or iodine of 0.02% - 40.0% (Table 1, Table 2).

[08] However, the prior art of record neither anticipates nor renders obvious to one ordinary skilled in the art the incandescent lamp comprising the elements as claimed above in combination with the specific limitations of the lamp fill containing no nitrogen, the distance between the lamp wall and the luminous body being less than 18 mm, and the lamp supporting a carbon cycle and a halogen cycle as set forth in claims 29 and 43.

[09] Claims 30, 32-42, and 45-47 are allowable because of their dependency status from claim 29, and claim 44 is allowable because of its dependency status from claim 43.

[10] Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

[11] The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kiesel *et al.* (US 4777404 A) disclose using a halogenated hydrocarbon in an incandescent lamp having a diameter less than 18 mm. However, Kiesel *et al.* disclose the fill contains nitrogen.

[12] Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRITT HANLEY whose telephone number is (571)270-3042. The examiner can normally be reached on Monday - Thursday, 0800-1800 ET.

[13] If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minh-Toan Ton can be reached on (571)272-2303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

[14] Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Britt Hanley/ Examiner, Art Unit 2889	/Karabi Guharay/ Primary Examiner, Art Unit 2889
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